

Agency Use

Permit No.:

Date Rec'd 2/3/9

Amount Rec'd 0,00

Check No.

Rec'd By

FORM NMP

### Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or <a href="http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp">http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp</a>

Section A - NMP Status (Check one):	
New No prior NMP submitted for this site.	
☐ Modification Change or update to existing NMP.	
Permit Number: MT <u>-G010132</u> (Specify the permit number th	at was previously assigned to your facility.)
Section B - Facility or Site Information:	
Site Name HAALAND'S T-BONE FEEDERS CORP.	
Site Location 7636 SHEPHERD ROAD, SHEPHERD MT	
Nearest City or Town SHEPHERD	County YELLOWSTONE
Section C - Applicant (Owner/Operator) Information:	
Owner or Operator Name NORMAN HAALAND	
Mailing Address P.O. BOX 97	
City, State, and Zip Code SHEPHERD, MT 59079	
Phone Number ( 406 ) 855-4832	

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FEB 0 3 2003

DEG/WPB PERMITTING & COMPLIFICION SIV.

Section D - NMP Minimum Elen ats:		
1. Livestock Statistics		
Animal Type and number of animals	# # of Days on Site (per year)	Annual Manure Production (tons.
		cu. yds.orgal)
i. FINISHING CATTLE 14911	365	27,756.62 тог
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3.	And the second s	
4.	же ОНТИВИТЕЛНОСТВО в достойности по меже образования на принада на при	
5.		
6.		
7.		
8.		
Method used for estimating annual manure production:		
TOTAL HEAD DAYS x 40#		
·		
2. Manure Handling  Describe manure handling at the facility:  USE LOADEER TO LOAD SPREADER TRU	UCKS, TRUCKS SPREAD TO FI	ELDS
·		
Frequency of Manure Removal from confinement areas:  ANNUALLY	· · · · · · · · · · · · · · · · · · ·	
		-
Is this manure temporarily stored in any location other the state of t	han the confinement area?. Yes	s X No
Is manure stored on impervious surface? Yes	X No	
If yes, describe type and characteristics of this surface:		
	X No	

aste Control Structure (name/typ	oe) Length (ft)	Width (ft)	Depth (ft)	Volume (cubic ft or gallon
LAGOON MAIN LOT	400'	150'	3 '	180,000 cubic fee
LAGOON CROFT	50'	50'	3'	7500 cubic feet
LAGOON A	100'	65'	4 13	39,000 cubic feet
LAGOON C	250'	130'	4'	130,000 cubic fee
	·			
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•				
		<u> </u>	<u> </u>	
Disposal of Dead Animals scribe how dead animals are disp BAKER COMMODITIE		•		
Disposal of Dead Animals scribe how dead animals are disp		•		
Disposal of Dead Animals scribe how dead animals are disp		•		
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Disposal of Dead Animals scribe how dead animals are disp BAKER COMMODITIE  Clean Water Diversion Practice scribe how clean water is diverted	es HAULS THE	M		
Disposal of Dead Animals scribe how dead animals are disp  BAKER COMMODITIE  Clean Water Diversion Practice	es HAULS THE	M		
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Disposal of Dead Animals scribe how dead animals are disp BAKER COMMODITIE  Clean Water Diversion Practice scribe how clean water is diverted	es HAULS THE	M		

	biting Animals and Wastes m Contact with State Waters how animals and wastes are prohibited from direct contact with state waters:
-	ANIMALS (cattle) KEPT IN FENCED PENS IN FEEDLOT
	WASTE ROUTED TO LAGOONS
	nicals and Contaminants how chemicals and other contaminants are handled on-site:
	NONE
-	
Describe used to of Include are not linstalling decreasi	Management Practice (BMPS) in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be control runoff of pollutants from facility's <b>production area</b> . Indicate the location of these measures, a schedule for implementation of each of these measures. Examples of BMP measures could include but imited to: constructing ditches, terraces, and waterways above an open lot to divert clean water run on; gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; and open lot surface area; repairing or adjusting water systems to minimize water wastage; using practicate of water for cooling purposes; recycling water if practical and applicable.  THERE'S A LAGOON IN THE MIDDLE OF PENS 72 and 62, THAT IS USED FOR
	PENS 112 THRU 1. WHEN NEEDED THEY ARE PUMPED TO THE LAGOON.
	PENS 128 and 127 ARE A NATURAL FLOW TO LAGOON A
	PENS 126 THRU 120 ARE A NATURAL FLOW TO LAGOON C
······································	PENS 1C THRU 4C ARE A NATURAL FLOW TO LAGOON CROFT
· · · · · · · · · · · · · · · · · · ·	

Describe in detail all temporary, permanent a used to control runoff of pollutants from faci practices. If not already in use, include a sch details and specifications may be used to sur include but are not limited to: maintaining se irrigation practices to prevent ponding of wa frozen ground; consulting with the Department ground; applying wastes at agronomic rates.	elity's land an edule for im- oplement this etbacks from stewater on ent prior to a	application area. Indicate the location of the applementation of each of these measures. At a description. Examples of BMP measures consurface waters for manure applications; mailand application sites; never spray irrigating applying any liquid waste to frozen or snow-or spray in the strength of the s	ese tached ould naging wastes onto
Plant sampling/tissue analysis	yes(no)	Rotational grazing	(yes/no
Conservation or reduced tillage	yes(no)	Manure injection or incorporation	yes/no
Terraces or other water control structures	yes/no	Contour plantings	yes(no)
Riparian buffers or vegetative filter strips	yes no	Winter "scavenger" or cover crops	yes(no)
Other examples			
9. Implementation, Operation, Maintenan	ce and Reco	ord Keeping – Guidance	
The permittee is required to develop guidance maintenance of the facility, and record keepi			and
Has a guidance document been developed for	or the facility	? Yes No	
Certify the document addresses the followin Implementation of the NMP: X Yes Facility operation and maintenance: X Yes Record keeping and reporting: X Yes Sample collection and analysis: X Yes Manure transfer: X Yes	g requirement No No No No No No	nts:	
Provide name, date and location of most reco		tation: IT-Brue Fewers	
If your answer to any of the above question	is no, provid	e explanation	

Section E - Land Application  Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?  No If no, then provide an explanation of how animal waste at this site are managed.  Yes If yes, then the information requested in Section E must be provided.
Photos and/or Maps  Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items:  Individual field boundaries for all planned land application areas  A name, number, letter or other means of identifying each individual land application field  The location of any down-gradient surface waters  The location of any down-gradient open tile line intake structures  The location of any down-gradient sinkholes  The location of any down-gradient agricultural well heads  The location of all conduits to surface waters  The specific manure/waste handling or nutrient management restrictions associated with each land application field.  The soil type(s) present and their locations within the individual land application field(s)  The location of buffers and setbacks around state surface waters, well heads, etc.  Land Application Equipment Calibration  Describe the type of equipment used to land apply wastes and the calibrating procedures:
Manure Sampling and Analysis Procedures A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining application rates for manure, litter, and process wastewater.
Manure Sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9
Other (describe)
Soil Sampling and Analysis Procedures  A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater.  Soil sample collection will occur according to the following method:  The recommended method(s) found in Section 5 of Department Circular DEQ 9
Other (describe)

Land Application Data-Narrative approach

The following must be filled out <u>for each field</u> to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. <u>Fields</u> with identical crops and soil types may be grouped together.

Crops and Manure	
Field Name and spreadable acres for each (for fields	with identical crops and soils type):
Crop 1 (year 1 or ?) plant species	
Irrigated (Y/N)	Con
Yield Goal (ton/ac or bushel/ac)	some sprinkler + some flood
N Content of soil as nitrate (lbs/acre or ppm)	- 32 lon feració
P Content of soil as P <sub>2</sub> O <sub>5</sub> (lbs/acre or ppm)	28
Time of Year When Application will Occur (month)	
Application frequency (per year by month)	Octobez
Form of manure (liquid/solid)	- yearly
Method of Application	Sold,
	Spreader trucks
Is manure incorporated or broadcast?	incorporated
Frequency of Application (yearly, biannual, etc.?)	Mearly
Crop 2	allalka
Irrigated (Y/N)	Glood invacted
Yield Goal (ton/ac or bushel/ac)	67 ton perace
N Content of soil as Nitrate (lbs/acre or ppm)	28
P Content of soil as P <sub>2</sub> O <sub>5</sub> (lbs/acre or ppm)	1/-12
Time of Year When Application will Occur (month)	October
Application frequency (per year, by month)	Measly
Form of manure (liquid/solid)	Talid
Method of Application	Spready touch
Is manure broadcast, injected or incorporated?	Inapporated
Frequency of Application (Annual, Biannual, ,etc?)	Meanly
	- June

#### Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

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IV			14 1		J.S.C.I	1

Inc	dicate which method will be used to determine phosphorus application:
X	Method A – Representative Soil Sample  Method B – Phosphorus Index
	Method B - Phosphorus Index

#### Method A – Representative Soil Sample

- a) Obtain one or more representative soil sample(s) from the field.
- b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).
- c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	
Olsen P Soil Test Result (ppm)	Application Basis
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

#### Method B – Phosphorus Index

- a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.
- b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus	
Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus I	Loss
Site Vulnerability to Phosph	torus Loss Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

d) The permittee will complete the Jutrient Budget Worksheet, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrie	nt Budget Worksheet		TOTAL STATE OF THE
Site/Fie	eld:	- ·	
	Nutrient Budget	Nitrogen-based	Phosphorus-based
		Application	Application
	Crop Nutrient Needs, lbs/acre included in		
	Department Circular DEQ 9		
·(-)	Credits from previous legume crops,		
	lbs/acre (from DEQ-9), as applicable		
(-)	Residuals from past manure production,		
•	lbs/acre (lbs/acre applied in previous		
	year(s) x fractions listed in DEQ-9)		
(-)	Nutrients supplied by commercial		
	fertilizer and Biosolids, lbs/acre		
(-)	Nutrients supplied in irrigation water,		
	lbs/acre		
	= Additional Nutrients Needed, lbs/acre	·	
	Total Nitrogen and Phosphorus in manure,		
	lbs/ton or lbs/1,000 gal (from manure test)		
(x)	Nutrient Avalability factor (for Nitrogen		
	based application see DEQ-9, below; for		
	Phosphorus based application use 1.0)		
	= Available Nutrients in Manure,		
	lbs/ton or lbs/1,000 gal		
	Additional Nutrients needed, lbs/acre		
	(calculated above)		
(/)	Available Nutrients in Manure, lbs/ton or		
	lbs/1,000 gal (calculated above)	-	
_	= Manure Application Rate, tons/acre		
	or 1,000 gal/acre		
Comme	nts:		
	unnerthe oftening light	Il somplant	Latorna
	ints: invently obtaining field Do injover if any from prev I calculating needs for	4 responded to	account to
_car	your if any from prov	cous manur	spreading
Clara	I calculations do and for	IIDEAMAN & BOA	0 11000
	Community of Celes for	maconing orang	e gener.
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### Section F - CERTIFICATION

#### **Permittee Information:**

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

### All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A.	Name	(Type	or	Prin	t)
----	------	-------	----	------	----

B. Title (Type or Print)	C. Phone No.
PRESIDENT	406-373-6006
D. Signature	E. Date Signed
norman Hackand	1-29-2009

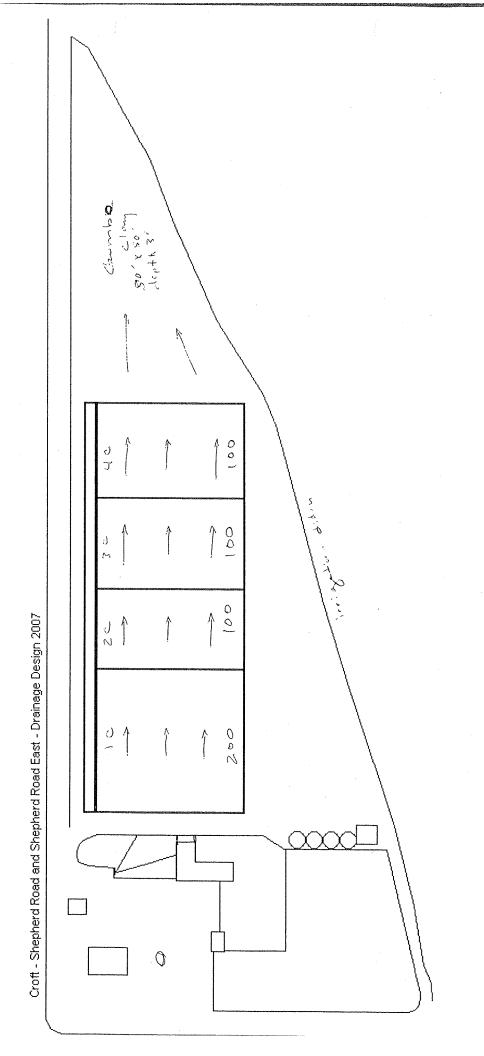
Return the Form NMP, Nutrient Management Plan to:

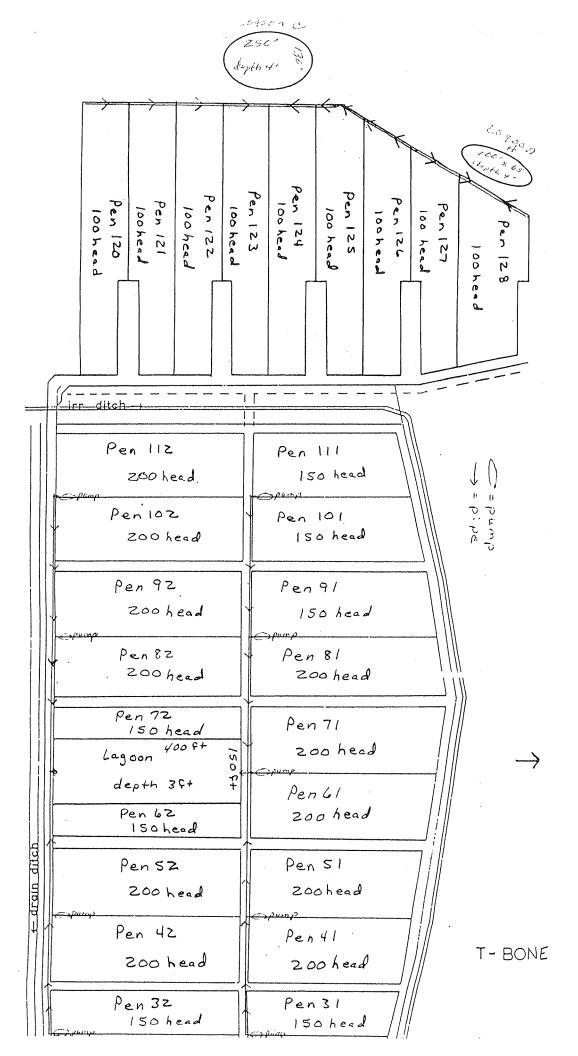
Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

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DEQWYPB PERMITTING & COMPLIANCE DIV.





### STUKENHOLTZ LABORATORY, INC. 2924 Addison Ave. E., P.O. Box 353 Twin Falls

274

208,734,3050, Fax: 734,3919 www.stukenholtz.com

MPLOT GROWER SOLUTIONS

4804 DANFORD DRIVE

BILLINGS MT 59108

P.O. BOX 80125

Manganese, ppm

Copper, ppm

Boron, ppm

6.1

0.7

1.15

Н

M

Н

406/656-2804 406/656-2005

41920

Report No.:

Date Received: 9/08/10

Date Reported: 9/09/10

SOIL TEST DATA	Sample	1 Sample 2		Sample 1	Sample 2
			Grower:	BLUE CREEK FE	EDERS
pН	7.3	М	Sample Identity	OLSEN FIELD	
Salts, mmhos/cm	1.4	L	Crop	HAYLAGE	
Chlorides, ppm	22	L	Yield Goal	3 T	
Sodium, meq/100g	0.1	VL	Acres	80	
CEC, meq/100g	14.5	M	Prev. Crop T/Acre	HAYLAGE	
Excess Lime, %	0.4	VL	Manure T/Acre		•
Organic Matter, %	2.66	H		dara	
Organic N, lb/Acre	50	M	Prev. Applied Nutrier		a Unite Dae Aoro
Ammonium - N, ppm	6.2	L.	RECOMMENDATIO	NO, Ips. Nottienta o	TUINS FEI ACIE.
Nitrate - N, ppm	19	М	Nitrogen	.0	
Phosphorus, ppm	41	VH	P <sub>2</sub> O <sub>5</sub> - Phosphate	0	
Potassium, ppm	485	VH	K <sub>2</sub> O - Potash	<b>0</b>	
alclum, meq/100g	9.7	н	Calcium ·	0	
Magnesium, meq/100g	3.1	VH	Magnesium	0	
Cultata C anm	11	M	Sulfate - Sulfur	10	
Sulfate - S, ppm	• •				
Zinc, ppm	2.5	Н	Zinc	0	

	ON OF CEC TO	S			ACTUAL A	ND RECOMM	ENDED PERC	ENT OF CEC		
0 - 5 5 - 12	TEXTURE Sand Loamy Sand	Σ P L E	% leudoA mulesploq	Recommended Potassium	Actual % Calcium	Recommended Calcium	Actual % Magnesium	Recommended Magnoslum	Actus % Sodlum	Recommended Sodium
12 - 18 18 - 24 24 -36 30 -	Sandy Loam Silt Loam Clay Loam Clay	1 2	11.1	3.0 - 6.0 %	66.9	65 - 80 %	21.4	15 - 25 %	0.7	< 3.0 %

Manganese

Elemental Sulfur

0

Copper

Boron

### STUKENHOLTZ LABORATORY, INC. P.O. BOX 353 ADDISON AVENUE EAST... TWIN FALLS, ID. 83303-0353, 1-800-759-3050 PHONE: (208)734-3050 TOLL FREE; (800)759-3050 FAX: (208)734-3919

.4 E	P.O. BOX 80 804 DANFO BILLINGS N	ORD DRIVE	LUTIC	SMS		/	<i>32.</i> ( <i>331)</i> (37)	2007	7XX: (208)734- 231297 Repo Date Re Date Re	74:274 ort No.: ceived:		406/656-2804 406/656-2005 41921 9/08/10 9/09/10
5	Soil Test Da	ta	Samp	le 1	San	ple 2		•		Samp	le 1 S	Sample 2
	Н		6.6	M		<b>( )</b>	SAMPL	E IDE	ENTITY	CEN FIELI	TER	, c., i, j, i o z
S	ALTS, mm	hos/cm	1	L			CROP				LAGE	
	CHLORIDE	S, ppin	24	L			YIELD	GOA	Ĺ	3 T		
	ODIUM, m		0.1	VL			ACRES			110		
	CEC, meq/10	00g	16.3	M			PASTC	ROP	T/Acre		LAGE	
E	EXCESS LII	ME, %	0.2	VL			MANU	RE T/	Acre	0		
C	PRGANIC I	MATTER, %	5.46	VH			PREV NUTRI		IED	0		
C	DRGANIC 1	N, lb/Acre	65	M					TIONS, lbs or	Units Actual	Nutrients pe	r.Aere
A	MMONIU	M-N, ppin	6.7	L						*		
Ŋ	IITRATE-N	l, ppm	11	M			NITRO	GEN		0		
P	HOSPHOR	US, ppm	23	M			P205 - P	HOSE	PHATE	50		
P	OTASSIUN	/I, ppm	480	VH			K20 - PO	SATC	Н	0		
С	ALCIUM,	meq/100g	9.8	M			CALCIT	UM		0		
	IAGNESIU 1eq/100g	M,	3.8	VH			MAGNI	ESIUN	<b>/</b>	0		
S	ULFATE-S	, ppm	9	L			SULFA	TE-SU	JLFUR	20		
$Z_{i}$	INC, ppm	•	2.3	Ħ			ZINC			0		
IF	RON, ppm		20.3	H			IRON			0		
	IANGANE	, ,	4.3	M			MANG	ANES	E	0		
	OPPER, pp		0.6	L			COPPE	R		0		
	ORON, ppr		0.80	M			BORON	1		0		
S	OIL TEXT			e Tabl		ee Table			SULFUR	0		
s		RATINO			ery Low	L - Low	M - Mcd		H - High	VH - Very I	igh CEC / S	soir.
A M P						MENDED I					TEXT	
L E	Actual % Potassium	Recom. Potassium	Calch		Recom, Calcium	Actual ' Magnesh			Actual % Sodium	Recom. Sodium	0-5 Sar 5-12 Loa 12-18 San	my Sand
2	9.8	3.0-6.0%	60.1		65-80%	23.3	15-2	25%	0.6	<3.0%	18-24 SIII 24-36 Cing 36+ Cing	Loam Loam
R E												
Μ												
R K												
S												

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ŀ	P.O. BOX 80 1804 DANF( BILLINGS N	ORD DRIVE			S							406/656-2804 406/656-2005 41919 9/08/10 9/09/10
	Soil Test Da	ta	Sample	ــــــــــــــــــــــــــــــــــــــ	Sam	ple_2_		****	management of the property of the last of	Samp	le_1	Sample 2
J	H		7.0	M			. ;	SAMPLE IDI	ENTITY	.,	T FIELD	•
3	SALTS, mm	hos/cm	1.2	L			1	CROP		HAY	LAGE	
(	CHLORIDE	S, ppm	38	M			•	YIELD GOA	L	3 T		,
Ç	SODIUM, m	cq/100g	0.1	VL				ACRES		80		
(	CEC, mcq/10	00g	15.9	M				PAST CROP	T/A cre	HAY	LAGE	
	EXCESS LIN	•	0.2	VĮ.			j	MANURE T/	Acre	0		
(	ORGANIC N	MATTER, %	3.73	Н				PREV. APPL NUTRIENTS		0		
(	DRGANIC N	l, lb/Acre	125	VH			Į	RECOMMENDA	WONS, Ibs.or	Units Actual	Nutrients	per Acre
F	MMONIU	M-N, ppm	6.8	L								
У	VITRATE-N	, ppm	16	M			1	NITROGEN		0		
P	PHOSPHOR	US, ppm	50	VH			ī	<sup>20</sup> 5 - PHOSI	PHATE	0		•
P	OTASSIUN	1, ppm	560	VН			Ŀ	<sup>ζ</sup> 2 <sup>0</sup> - POTAS	Н	0		
C	CALCIUM, 1	neq/100g	9.9	M				CALCIUM		0		
	MAGNESIU: neg/100g	Μ,	4.0	VH		*	ì	MAGNESIUN	<b>M</b>	0		
	ULFATE-S,	, ppm	18	M				SULFATE-SU	JLFUR	0		
Z	INC, ppm		3.3	H			2	ZINC		0		
IJ	RON, ppm		22.9	H			I	RON		0		
M	IANGANES	SE, ppm	10.0	H			Ŋ	MANGANES	E	0		
	OPPER, ppi		0.9	M			(	COPPER		0 .		
В	ORON, ppn	n	1.25	H			T	BORON		0		
S	OU, TEXTU			Tabl		ee Tah	le F	ELEMENTAL		0		
S		RATING			ery Low	L-Lo		M - Moduim	H - High	VIII - Very [	• •	CON
A M P					ECOMM	IENDE	D PE	RCENT OF (	CEC		CEC /	TURE
L E	Actual % Potassium	Recom. Potașșium	Actual ? Calcium		Recom. Calcium		ual % nesium	Recom, Magnesium	Actual % Sodium	Recom. Sodium		and osmy Sand andy Loam
1	11.7	3.0-6.0%	62,3		65-80%	2	5,2	15-25%	0,6	<3.0%	18-24 St	It Loam Iny Loam
R E M A R K S									•			

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### STUKENHOLTZ LABORATORY, INC. P.O. BOX 353 ADDISON AVENUE EAST ... TWIN FALLS, ID. 83303-0353 . 1-800-759-3050 PHONE. (208)734-3050 TOLL FREE: (800)759-3050 FAX; (208)734-3919

Ţ	SIMPLOT GROWER SO P.O. BOX 80125			16)12-112(1)	r (OU) eki:	ts: (400)\224-3020 f	231297	8:274		406/656-280- 406/656-200	
J	1804 DANFORD DRIVE BILLINGS MT 591 GROWER: T-BONE FEI	EDERS					Repo Date Rec Date Rep			41925 9/08/19 9/09/10	0
	Soil Test Data	Sample	e 1	Sam	nle 2		Date Ice	Sampl	c 1	Sample 2	U
	pH	7.6	Н	o (ALL)		SAMPLE IDI	ENTITY	NOR HOUS	MS <sub>.</sub>	oumpie z	
	SALTS, mmhos/cm	0.9	L		•	CROP		CORI SILA			
(	CHLORIDES, ppm	25	L			YIELD GOA	L	35 T			
Ş	SODIUM, meq/100g	0.2	VL			ACRES		24			
(	CEC, meq/100g	17.9	М			PAST CROP	T/Acre	CORN SILAC			
E	EXCESS LIME, %	0.6	L			MANURE T/	Асте	0			
(	ORGANIC MATTER, %	2.39	M			PREV. APPL NUTRIENTS		0			
. (	DRGANIC N, 1b/Acre	90	M			RECOMMENDA		Units Actual	Nutricn	ts per Acre	
	MMONIUM-N, ppm	2.2	VL								
J	NTRATE-N, ppm	8	L			NITROGEN		245			
P	HOSPHORUS, ppm	32	H			P2OS - PHOSI	PHATE	95			
P	OTASSIUM, ppm	285	I-I			K20 - POTAS		0			
C	CALCIUM, meq/100g	10.8	M		•	CALCIUM	**	0			
N	AGNESIUM,	5.9	VH			MAGNESIUN	Ą	0			
	ULFATE-S, ppin	8	L			SULFATE-SU	JLFUR	60			
	INC, ppm	0.8	L			ZINC	****	10			
	RON, ppm	11.3	H			IRON		0			
N	IANGANESE, ppm	2.5	L			MANGANES	E	6			
	OPPER, ppm	0.7	M			COPPER		0			
В	ORON, ppm	0.85	M			BORON		0			
	OIL TEXTURE	See	Tabl	e Se	e Table	ELEMENTAL	SULFUR	0			
	RATING	is: V	n V	ry Low	L-Low	M - Meduim	H - High	VH - Very H	igh		
S A M	ACT	JAL AI	ID RI	ECOMM	ENDED P	ERCENT OF	CEC			C / SO(L XTURE	
P L E	Actual % Rocom. Potossium Potossium	Actual 9 Calciun		Recom. Calcium	Actual % Magnesiu		Actual % Sodium	Recom, Sodium	5-12	Send Loamy Sand Sandy Loam	
1	5 3 3 0-6.0%	60.3		65-80%	33.0	15-25%	1.1	<3,0%	18-24 24-36	Silt Loain Clay Loam Clay	
R F. M	Crapt:Split application of N is a Cropt:Above recommendations Cropt Should use a foliar nutric	are for bro	adeast	placement &	int tissue tests è should be re	and add N as neode duced for band appl	d, Ication.		20.	,	

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	SIMPLOT GROWER SO. P.O. BOX 80125 4804 DANFORD DRIVE BILLINGS MT 591 GROWER: T-BONE FEI	LUTIO				is, (amyr23-1030	23129	80:274 ort No.: ceived:		406/656-2804 406/656-2005 41927 9/08/10 9/09/10
	Soil Test Data	Sample	e 1	Samp	le 2		, .	Samp	ile 1	Sample 2
	pH	8.0	H	·		SAMPLE II	DENTITY	LITT BUT	TLE	,
	SALTS, mmhos/cm	1	L			CROP		COR SILA		
	CHLORIDES, ppm	24	L			YIELD GO	A.L.	35 T		
	SODIUM, meq/100g	0.3	VL			ACRES		23		
	CEC, mcq/100g	16.3	M		. 1	PAST CROI	P T/Acre	CORI SILA		
	EXCESS LIME, %	1.4	M		,	MANURE 7	7/Acre	0		
	ORGANIC MATTER, %	2.22	M	1		PREV. APP NUTRIENT		0		
	ORGANIC N, lb/Acre	85	M			RECOMMENT	no ed Lenolta	Units Actual	Nutrien	IS NEC Acre
	AMMONIUM-N, ppm	2.2	VL							
	NITRATE-N, ppm	11	M			NITROGEN		245		
	PHOSPHORUS, ppm	49	VH			P205 - PHOS	SPHATE	0		
	POTASSIUM, ppm	365	H			K20 - POTA	SH	0		
	CALCIUM, meq/100g	10.2	M			CALCIUM		0		
	MAGNESIUM, mcq/100g	4.6	ΛΉ			MAGNESIC	ΙM	0		
1	SULFATE-S, ppm	10	L			SULFATE-S	ULFUR	60		
	ZINC, ppm	1.3	M			ZINC		9		
	IRON, ppm	9.6	M			IRON		0		
	MANGANESE, ppm	3.3	M			MANGANE	SE	4		
		0.6	L			COPPER		0		
	BORON, ppm	1.00	M			BORON		. 0		
5	SOIL TEXTURE		Table		e Table	ELEMENTA		0		
s	41.11			ry Low	L-Low	M - Medaim ERCENT OF	H - High	VII - Very H	-	C/SOIL
٨		37.07.0		COMM	SINDLED !	DECORTE OF	CBC		TEX	CTURE
PLB	Actual % Recom. Potassium Potassium	Actual % Calcium		Recom. Calcium	Action) V Magnesiu		Actual % Sodium	Recom. Sodium	5-12	Sand Loamy Sand Sandy Loam
2	7 \$ 3.0-6.0%	62,6		65-80%	28.2	15-25%	1.8	<3.0%	18-24	Silt Loam Clay Loam
REMARKS	Crop1:Split application of N is a Crop1:Above recommendations Crop1: Should use a foliar nutrie	are for bro	adeast p	lacement &	nt tissue tests should be re	and add N as need duced for band ap	ded. plication.			

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SIMPLOT GROWER SO P.O. BOX 80125 4804 DANFORD DRIVI BILLINGS MT 591 GROWER: T-BONE FE	3				. (000)	231291 Repo Date Re Date Re	ort No.: ceived:	9	
Soil Test Data	Sampl	le 1	Samp	le 2			Samp		
рН	8.3	H	·		SAMPLE ID	ENTITÝ	BIG		
SALTS, mmhos/cm	1.4	M			CROP		COR SILA	N	
CHILORIDES, ppm	33	M			YIELD GOA	L	35 T		
SODIUM, meq/100g	0.6	VL			ACRES		48		
CEC, mcq/100g	22.2	Н			PAST CROP	T/Acre	COR SILA		
EXCESS LIME, %	1.9	M			MANURE TA	'Acre	0		
ORGANIC MATTER, 9	6 2.92	H			PREV. APPL NUTRIENTS		0		
ORGANIC N, lb/Acre	105	H			BECOMMEND	NO SHOUL	Units Actual	Nutrients per Acre	
AMMONIUM-N, ppm	7.2	L							
NITRATE-N, ppm	10	L			NITROGEN		210		
PHOSPHORUS, ppm	35	H			P2O5 - PHOS	PHATE	65		
POTASSIUM, ppm	425	VH			K20 - POTAS	H	0		
CALCIUM, mcq/100g	14.2	M			CALCIUM		0		
MAGNESIUM, meq/100g	6.0	VH			MAGNESIUI	M	0		
SULFATE-S, ppm	12	M			SULFATE-SU	JLFUR	50		
ZINC, ppm	1.3	M			ZINC		9		
IRON, ppm	6.2	M			IRON		Ò		
MANGANESE, ppm	4.5	M			MANGANES	E	0		
COPPER, ppm	0.7	M			COPPER		0		
BORON, ppm	1.65	H			BORON		0		
SOIL TEXTURE		e Table		Table	ELEMENTAI	SULFUR	0		
RATIN 5	GS:	VL - Very	Low	L · Low	M - Meduim	H - High	VH - Very H	-	
A ACI			OMME	NDED P	ERCENT OF	CEC		CEC / SOIL TEXTURE	
P Actual % Recom. L Potassium Potassium	Actual Calcius		com. lcium	Actual % Magnesiur	444.4	Actual % Sodium	Recom. Sodium	0-5 Sand 5-12 Loamy Sand	
3.0-6.0%	64.0	65	-80%	27.0	15-25%	2.7	<3,0%	12-18 Sandy Loam 18-24 Silt Loam 24-36 Clay Loam 36+ Clay	
R  E Cropt: Split application of N is M Cropt: Above recommendation. Cropt: Should use a foliar nutri R  K  S	s are for bro	ondenst plac	cment & :	t tissue lests Should be rec	and add N as neede luced for band appl	id. Ication.			

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SIMPLOT GROWER SOI P.O. BOX 80125 4804 DANFORD DRIVE BILLINGS MT 591 GROWER: T-BONE FER	LUTION				E. (800)139-3030 E	231298	31:274 ort No.: ceived:		406/656-2804 406/656-2005 41928 9/08/10 9/09/10
Soil Test Data	Sample	: 1	Samp	le 2			Sampl	le 1	Sample 2
рН	8.0	Н	· ·	,	SAMPLE IDI	ENTITY	STEI PVT		·
SALTS, mmhos/cm	1	L			CROP		COR SILA		
CHLORIDES, ppm	26	M			YIELD GOA	L	35 T		
SODIUM, meg/100g	0.3	VL			ACRES		120		
CEC, meq/100g	18.6	Н			PAST CROP	T/A cre	CORI SILA		•
EXCESS LIME, %	0.9	Ţ,			MANURE T/	Acre	0		
ORGANIC MATTER, %	2.43	M			PREV. APPL NUTRIENTS		0		
ORGANIC N, 1b/Acre	90	M			RECOMMEND	JUONS. lbs.or	Unite Actual	Nutrien	ts_p.cr_Acre
AMMONIUM-N, ppin	5.7	L							
NITRATE-N, ppm	12	M			NITROGEN		225		
PHOSPHORUS, ppm	36	H			P205 - PHOS	PHATE	65		
POTASSIUM, ppm	370	Н			K20 - POTAS	H	0		
CALCIUM, meq/100g	12.7	H			CALCIUM		0		
MAGNESIUM, meq/100g	4.4	VH			MAGNESIUI	M	0		
SULFATE-S, ppm	11	M			SULFATE-SU	JLFUR	50		
ZINC, ppm	1.1	M			ZINC		9		
IRON, ppm	8.1	M			IRON		0		
MANGANESE, ppm	5.7	H			MANGANES	E .	0		
COPPER, ppm	0.6	L			COPPER		0		
BORON, ppm	1.15	H			BORON		0		
SOIL TEXTURE	Sec	Table	e Se	e Table	ELEMENTA	L SULFUR	. 0		
RATING 5	iş: v	/L - Vo	ry Low	L - Low	M - Medulm	H - High	VH - Very H		C / SOIL
A ACT	JAL AN	1D RI	ECOMM:	ENDED I	PERCENT OF	CEC			XTURE
P Actual % Recom, L Potagglum Potaggium E	Actual 3 Calclup		Rocom. Calcium	Actual *		Actual % Sodium	Recom. Sodium		Sand Lonmy Sand Sandy Loam
1 6.6 3,0-6,0%	68,3		65-80%	23.7	15-25%	1.6	<3.0%	18-24 24-36	Sandy Loam Silt Loam Clay Loam Clay
R E Crop1:Split application of N is a M Crop1:Above recommendations									

M Crop1: Above recommendations are for broadcast placement & should be reduced for band application, A Crop1: Should use a foliar nutrient apray containing copper.

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K S

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SIMPLOT GROWER SOI P.O. BOX 80125 4804 DANFORD DRIVE BILLINGS MT 591 GROWER: T-BONE FEE	LUTION		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		;; (auu)139-3030 -e	231297	7:274 rt No.: eived:	406/656-2804 406/656-2005 41924 9/08/10 9/09/10
Soil Test Data	Sample	1	Samp	ole 2		P	Sampl	
рН	8.2				SAMPLE IDE	ENTITY	CROI PVT	
SALTS, mmhos/cm	1.2	L			CROP		CORI SILAC	
CHLORIDES, ppm	28	M			YIELD GOAL	L	35 T	
SODIUM, meq/100g	0.2	VL			ACRES		120	
CEC, meq/100g	20.4	H			PAST CROP	T/A cre	CORN	
EXCESS LIME, %	1.2	M		•	MANURE T/	Acre	0	
ORGANIC MATTER, %	2.75	H			PREV. APPL NUTRIENTS		0	
ORGANIC N, 1b/Acre	100	Н			RECOMMUNDA	JIQNS.Ilveor	Units Actual I	Yutclents nec Acre
AMMONIUM-N, ppm	5.6	L						
NITRATE-N, ppm	10	L			NITROGEN		220	
PHOSPHORUS, ppm	24	M			P2O5 - PHOSPHATE		105	
POTASSIUM, ppm	240	M			K20 - POTASH		70	
CALCIUM, meg/100g	14.6	H			CALCIUM		0	
MAGNESIUM,	4.8	VH			MAGNESIUN	M	0	
meq/100g	•							
SULFATE-S, ppm	8	Ľ		÷	SULFATE-SU	JLFUR	60	
ZINC, ppm	0.8	L			ZINC		10	
IRON, ppm	6.8	M			IRON		0	
MANGANESE, ppm	2.5	L			MANGANES	E	6	
COPPER, ppm	0.5	L			COPPER		0.5	
BORON, ppm	1.10	M			BORON		0	
SOIL TEXTURE		Table		o Table	ELEMENTAI		0	
RATING			ry Low	L-Low	M - Medulm	H - High	VII - Very Hi	CEC / SOIL
A ACIT	JALAI		COMM	ENDED P	ERCENT OF (	CEC		TEXTURE
P Actual % Recom. L Potassium Potassium	Actual ? Calciun		Recoin. Calcium	Actual % Magnesisu		Actual % Sødium	Recom. Sadlum	0-5 Sand 5-12 Loamy Sand
1 3.9	71.6			23.5		1.0		12-18 Sandy Loam 18-24 Silt Loam
3,0-6,0%			65-80%		15-25%		<3.0%	24-36 Clay Loam 36+ Clay
R E Crop I Split application of N is a M Crop I: Above recommendations A Crop I: Should use a foliar nutrie R	are for bro	adcast	olacement &					

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	SIMPLOT GROWER SOI P.O. BOX 80125 4804 DANFORD DRIVE BILLINGS MT 591 GROWER: T-BONE FEI		18		roop me.		231297 Repo Date Rec Date Re	ort No.: ocived:		406/656-2804 406/656-2005 41922 9/08/10 9/09/10
	Soil Test Data	Sample	: 1	Sampl	e 2		DeVri		e 1	Sample 2
	pH	7.8	Н	·		SAMPLE IDE	ENTITY	-₽.X.1	RIBS 1	•
	SALTS, mmhos/cm	1.2	L			CROP		CORI SILAC		
	CHLORIDES, ppm	34	M			YIELD GOAL		35 T		
	SODIUM, meq/100g	0.6	L			ACRES		72	,	
	CEC, meq/100g	18.9	H			PAST CROP	T/A cre	CORN SILA(		
	EXCESS LIME, %	0.7	L			MANURE T/A	Acre	0		
ı	ORGANIC MATTER, %	2.52	Н			PREV. APPLI NUTRIENTS	ED	0	•	
1	ORGANIC N, lb/Acre	95	H.			RECOMMENDA	TIQNS.Jbs_or_	Units Actual	Nutrients	peracte
,	AMMONIUM-N, ppin	2,4	VĻ							
)	NITRATE-N, ppm	8	L.			NITROGEN		240		
)	PHOSPHORUS, ppm	28	T-[			P2O5 - PHOSP	HATE	105		
1	POTASSIUM, ppm	245	M			K20 - POTASI	r-I	55		
(	CALCIUM, meq/100g	12.2	М			CALCIUM	•••	0		
	MAGNESIUM, neq/100g	5.3	VH			MAGNESIUN	1	0		
Ş	SULFATE-S, ppm	12	M			SULFATE-SU	ILFUR	50		
2	ZINC, ppm	0.8	L			ZINC		10		
I	RON, ppm	9.9	M			IRON		0		
Ņ	MANGANESE, ppm	8.5	Į-Į			MANGANESI	Е	0		
	COPPER, ppm	0.8	M			COPPER		0		
	BORON, ppm	1.05	M			BORON		0		
S	SOIL TEXTURE		Table			ELEMENTAL		100		
s	RATING			•	L - Law	M - Medulm	H - High	VH - Very H	_	/ SOIL
A M		JAL AN	ID RI	ECOMME	NDED P	ERCENT OF C	CEC			TURE
PLE	Actual % Recom. Potassium Potassium	Actual 9 Calciun		Recom. Calcium	Actual % Magneslur		Actual % Sodium	Recom. Sodium	5-12 1	Sand Joamy Sand Sandy Leam
2	4.3 3.0-6.0%	64.6	,	65-80%	28,0	15-25%	3.2	<3.0%	18-24 5	liit Loam Clay Loam
M A	Crop 1: Split application of N is a Crop 1: Sodium is too high. Elem Crop 1: Examples of acid forming Crop 1: Above recommendations	ental Sulfu Certilizers	r or Gy are: 21	psum will he -0-0/Thio-Su	lp reduce the Mitro-Sul a	harmful offects. Ind Disintegrating S	ulfurs,			

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SIMPLOT GROWER SOLUTIONS P.O. BOX 80125 4804 DANFORD DRIVE BILLINGS MT 591 GROWER: T-BONE FEEDERS Soil Test Data Sample 1 Sample 2				TOLL PRO	5: (880)/39-3030 F/	231297	6:274 rt No.: eived:		406/656-2804 406/656-2005 41923 9/08/10 9/09/10	
	Soil Test Data	Sample	: 1	Samp	ole 2			Sample	: 1	Sample 2
	pΗ	7,7	Н	•		SAMPLE IDE	NTITY	DAUR FLD	HES 2	•
	SALTS, mmhos/cm	0.9	L	CROP			CORN SILAGE			
	CHLORIDES, ppm	16	L			YIELD GOAL	,	35 T		
	SODIUM, meg/100g	0.2	VL			ACRES		20		
	CEC, meq/100g	15.4	M	•		PAST CROP 1	7/Acre	CORN SILAG	Εl	
	EXCESS LIME, %	0.8	L			MANURE T/A	cre	0		
	ORGANIC MATTER, %	1.88	M			PREV. APPLI NUTRIENTS	ED	0		
	ORGANIC N, lb/Acre	70	M			RECOMMENDA	UONS. Jha or	Units Actual N	lutrients	LPST ACIC
	AMMONIUM-N, ppm	5.2	L							
	NITRATE-N, ppin	9	L			NITROGEN		255		
	PHOSPHORUS, ppm	27	H			P2O5 - PHOSPHATE		105		
	POTASSIUM, ppm	245	M			K <sub>2</sub> O - POTASH		55		
	CALCIUM, meg/100g	10.5	H			CALCIUM		0		
	MAGNESIUM, meq/100g	3.9	VH.			MAGNESIUM	[	0		
	SULFATE-S, ppm	9	L			SULFATE-SU	LFUR	60		
	ZINC, ppm	0.8	L			ZINC		10		q
	IRON, ppm	10.0	M			IRON		0		
	MANGANESE, ppm	6.1	H			MANGANESE	3	0		
1	COPPER, ppm	0.6	L			COPPER		0		
]	BORON, ppm	0.75	M			BORON		0		
i	SOIL TEXTURE	Sec	Table	e Se	e Table	ELEMENTAL	SULFUR	0		
_	מאנזאמ	is: v	/1 Ve	ry Low	L - Low	M - Meduim	H - High	VH - Very Hi		
S M	ACIT	JAL AN	VD RI	ECOMM	ENDED F	ERCENT OF C	EC			/SOIL CTURE
P L E	Potassium Potassium	Actual ? Calciun		Recom, Calcium	Actual V Magnosiu		Actual 1/4 Sodium	Recom. Sodium	5-12	Sand Loamy Sand Sandy Loam
2	5.3 3.0-6.0%	68,2		65-80%	25.3	15-25%	1.3	<3.0%	18-24 24-36	Silt Loam Clay Loam Clay
	Crop I Split application of N is a 1 Crop I: Above recommendations Crop I: Should use a foliar nutric	are for bro	adcast	placement &						

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#### LABORATORY ANALYTICAL REPORT

Client:

T-Bone Feeders

Project: Lab ID:

B09031661-001

Client Sample ID: Pile 42 Feedlot

Report Date: 04/07/09

Collection Date: 03/24/09 08:00

DateReceived: 03/24/09

Matrix: Soil

Analyses	Result	Units	eroilliauQ	RL	MCL/ MCL/	Method	Analysis Date / By
CHEMICAL CHARACTERISTICS  Nitrate as N, KCL Extract  - The analysis was performed on an as receive	0.011 ed moisiure basi	lba/ton	c	0.002		A\$A33-8	03/26/09 11:14 / srm
METALS, TOTAL - EPA SW846 Phosphorus	3.72	lbs/ton		20.0		SW6010B	03/30/09 18:31 / tao

### **QA/QC Summary Report**

Client: T-Bone Feeders

Project:

Report Date: 04/01/09

Work Order: B09031661

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B		to the same of	***************************************	<del>aleste tall et tolke heate</del>				Bat	ch: 37989
- IID ##D 07000	Method Blank				Run; ICP20	02-B_090330A		03/30	/09 18:22
Sample ID: MB-37989 Phosphorus	ND ND	mg/kg	8.0			-			*
Sample ID: LCS1-37989	Laboratory Co	ntrol Sample			Run: ICP2	02-B_090330A		03/30	0/09 18:27
Phosphorus	572	mg/kg	10	91	70	130			
Sample ID: B09031894-001ADIL	Serial Dilution				Run: ICP2	02-B_090330A		03/30	0/09 20:24
Phosphorus	37.8	mg/kg	10		0	0		10	N
Sample ID: MB-37989	Method Blank				Run: ICP2	02-B_090331A		03/3	1/09 15:08
Phosphorus	4	mg/kg	8.0						
Sample ID: B09031895-001AMS3	Sample Matrix	: Spike			Run; ICP2	02-B_090331A		03/3	1/09 15:16
Phosphorus	710	mg/kg	10	100	75	125			
Sample ID: B09031895-001AMSD3	Sample Matrix	Spike Duplicate			Run: ICP2	02-B_090331A		03/3	1/09 15:20
Phosphorus	691	mg/kg	10	98	75	125	2.6	20	
Method: SW6010B			*****		All Mary and the Control of the Cont	Anal	ytical Ri	ın: ICP202-B	_090330A
Sample ID: QCS	Initial Callbrat	on Verification Sta	ındard					03/3	0/09 11:42
Phosphorus	8.12	mg/L	0.10	101	90	110			
Sample ID: ICSA	Interference C	Check Sample A						03/3	0/09 11:58
Phosphorus	0.0130	mg/L	0,10		-0.1	0.1			
Sample ID; ICSAB	interference C	heck Sample AB						03/3	0/09 12:02
Phosphorus	10.6	mg/L	0.10	106	80	120			

RPD for the serial dilution test.



ENERGY LABORATORIES, INC. • P.O. Box 30916 • 1120 South 27th Street • Billings, MI 39107-0910 800-735-4489 • 406-252- 5 • 406-252-6069 fax • ali@energylab.com

### QA/QC Summary Report

Client:

T-Bone Feeders

Project:

Report Date: 04/07/09

Work Order: B09031661

Analyte	Result Units	RL %REC Low Limit High Limit	RPD RPDLimit Qual
Method: ASA33-8	and the second seco		Batch: 09032601-NNS2
Sample ID: LCS Nitrate as N, KCL Extract	Laboratory Control Sample 8.35 mg/kg	Run: FIA201-B_090326A 1.0 93 50 150	03/26/09 11:08
Sample ID: MBLK-KCL Nitrate as N. KCL Extract	Method Blank ND mg/kg	Run: FIA201-B_090326A 0.1	03/26/09 11:09
Sample ID: B09031304-001BDUP Nitrate as N. KCL Extract	Sample Duplicate 4.92 mg/kg-dry	Run: FIA201-B_090326A 1.0	03/26/09 11:12 0.3 30
Sample ID: B09031304-001BMS Nitrate as N. KCL Extract	Sample Matrix Spike 47,0 mg/kg-dry	Run; F A201-B_090326A	03/26/09 11:13

### **ANALYTICAL SUMMARY REPORT**

March 13, 2009

Mitch Macrow

T-Bone Feeders

Box 97

Shepherd, MT 59079

Workorder No.: B09030781

Project Name: Blue Creek Feeders

Energy Laboratories Inc received the following 2 samples for T-Bone Feeders on 3/10/2009 for analysis.

Sample ID C		Collect Date	Receive Date	Matrix	Test	
B09030781-001 La	•	03/10/09 12:00	0 03/10/09	Sludge	Nitrate as N, KCL Extract	
B09030781-002 La		03/10/09 12:00	0 03/10/09	Solid	Same As Above	

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

#### LABORATORY ANALYTICAL REPORT

Client:

T-Bone Feeders

Project:

Blue Creek Feeders

Lab ID:

B09030781-001

Client Sample ID: Lagoon Liquid

Report Date: 03/13/09

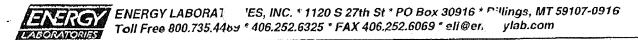
Collection Date: 03/10/09 12:00

DateReceived: 03/10/09

Matrix: Sludge

Analyses	Result Units	Qualifiers RL	MCL/ QCL	Method	Analysis Date / By
CHEMICAL CHARACTERISTICS Nitrate as N, KCL Extract	46 mg/kg	1		ASA33-8	03/11/09 12:15 / srm

- The analysis was performed on an as received moisture basis



#### LABORATORY ANALYTICAL REPORT

Client:

T-Bone Feeders

Project:

Blue Creek Feeders

Lab ID:

B09030781-002

Client Sample ID: Lagoon Solid

Report Date: 03/13/09

Collection Date: 03/10/09 12:00

DateReceived: 03/10/09

Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CHEMICAL CHARACTERISTICS Nitrate as N, KCL Extract	291	mg/kg		1		A\$A33-8	03/11/09 12:16 / srm

T-BONE FEEDERS
ANNUAL BEEF CATTLE 2008

						BALANCE	
		IN		OUT			
MONTH	IN LOT	PASTURE	OUT	PASTURE	DEADS	4749	HDDAYS
January	1 165	0	1949	0	7	3958	130918
February	1447	0	695	0	3	4707	118628
March	840	0	2082	0	6	3459	126760
April	1 147	301	829	301	4	3773	103722
May	2289	1677	1779	636	12	5312	86176
June	983	0	987	578	6	4724	65696
July	1167	0	1143	0	3	4745	54229
August	1637	461	807	1012	3	5021	72872
September	1902	1649	1113	1649	10	5800	134570
October	448	. 0	270	316	19	5643	176332
November	833	0	766	0	<b>9</b>	5701	159839
December	1053	0	2057	38	7	4652	158089
TOTAL'S	14911	4088	14477	4530	89	4652	1387831
							<u>/366</u>
							3791.88798

#### T-BONE FEEDERS

### CATTLE MANUR E CALCULATION IN LOT

T	<del></del>	
HEAD	HEAD	CATTLE WT IN
		plus
	**************************************	CATTLE OUT WT
<b>1</b> 165	130918	1579924
		1751054
<b>1</b> 447	118628	970547
		990896
840	126760	809722
		1733077
<b>1</b> 147	103722	867265
		1372370
2289	86176	2780155
		633022
983	65696	1033028
		838331
<b>1</b> 167	54229	1004525
		422273
1637	72872	957891
		1523028
1902	134570	2592017
		1626212
448	176332	652703
		180627
833	159839	1486197
-0-10-1		211661
1053	158089	1202078
<u>0</u>	0	2362950
14911	1387831	29581553
	COUNT IN LOT 1165 1447 840 1147 2289 983 1167 1637 1902 448 833 1053 0	COUNT IN LOT         DAYS IN LOT           1165         130918           1447         118628           840         126760           1147         103722           2289         86176           983         65696           1167         54229           1637         72872           1902         134570           448         176332           833         159839           1053         158089           0         0

29581553# / 14911 HD / 2 = 992 AVG. 1387831 x 40# = 55,513,240 / 2000 = 27,756.62



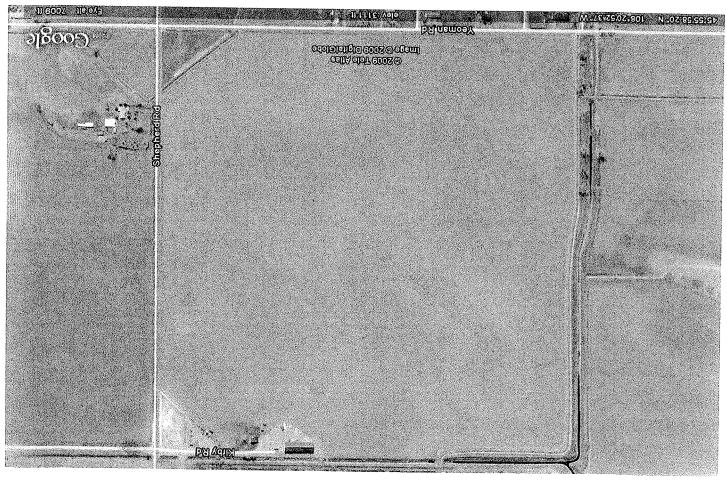


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